WEST

Generate Collection Print

L4: Entry 7 of 9

File: PGPB

Aug 8, 2002

DOCUMENT-IDENTIFIER: US 20020107148 A1

TITLE: Herbicidal composition

Abstract Paragraph (6):

B) at least one compound selected from the group consisting of aryloxyalkanoic acids, aromatic carboxylic acids, ureas, triazines, anilides, hydroxybenzonitriles, quaternary ammonium salts, triketones, aryloxyphenoxypropionic acids, oximes, sulfonylureas, imidazolinones, dinitroanilines, chloroacetanilides, oxyacetamides, thiocarbamates, amides, semicarbazones, amino acids, and inhibitors of protoporphyrinogen oxidase that includes diphenyl ethers, substituted uracils, pyrazoles, triazolinones and triazolopyridinones.

Summary of Invention Paragraph (10):

[0008] B) at least one compound selected from the group consisting of aryloxyalkanoic acids, aromatic carboxylic acids, ureas, triazines, anilides, hydroxybenzonitriles, quaternary ammonium salts, triketones, aryloxyphenoxypropionic acids, oximes, sulfonylureas, imidazolinones, dinitroanilines, chloroacetanilides, oxyacetamides, thiocarbamates, amides, semicarbazones and inhibitors of protoporphyrinogen oxidase that include diphenyl ethers, substituted uracils, N-phenylphthalimides, pyrazoles, triazolinones and triazolopyridinones.

Detail Description Paragraph (9):

[0016] B) at least one compound selected from the group consisting of aryloxyalkanoic acids such as 2,4-D, 2,4-DB, MCPA or MCPB; aromatic carboxylic acids such as 2,3,6-TBA, Dicamba Picloram or Clopyralid; ureas such as Diuron, Linuron, Isoproturon, Chlorotoluron, Metobenzuron, Tebuthiuron or Fluometuron; triazines such as Simazine, Atrazine, Cyanazine, Terbuthylazine, Atraton, Hexazinone, Metribuzin, Simetryn, Ametryn, Prometryn, Dimethametryn or Triaziflam; anilides such as Propanil or Cypromid; hydroxybenzonitriles such as Bromoxynil-octanoate, Bromoxynil or loxynil; quaternary ammonium salts such as Paraquat, Paraquat-dichlorid, Diquat or Difenzoquat; diphenyl ethers such as Lactofen, Acifluorfen, Acifluorfen-sodium, Oxyfluorfen, Fomesafen, Bifenox or Chlomethoxyfen; triketones such as Sulcotrione or Mesotrione; aryloxyphenoxypropionic acids such as Diclofop-methyl, Pyrofenop-sodium, Fluazifop-butyl, Fluazifop-p-butyl, Haloxyfop-methyl, Quizalofop-p-ethyl, Quizalofop-p-tefuryl, Fenoxaprop-ethyl, Fenoxaprop-p-ethyl, Cyhalofop-butyl or Clodinafpop-p-propargyl; oximes such as Alloxydim-sodium, Sethoxydim, Clethodim, Tepraloxydim, Tralkoxydim or Cycloxydim; sulfonylureas such as Chlorimuron-ethyl, Nicosulfuron, Metsulfuron-methyl, Triasulfuron, Primisulfuron-methyl, Tribenuron-methyl, Chlorosulfuron, Bensulfuron-methyl, Sulfometuron-methyl, Prosulfuron, Halosulfuron, Halosulfuron-methyl, Thifensulfuron-methyl, Rimsulfuron, Azimsulfuron, Flazasulfuron, Imazosulfuron, Cyclosulfamuron, Flupyrsulfuron, Iodosulfuron, Ethoxysulfuron, Flucarbazone, Sulfosulfuron, Oxasulfuron or Foramsulfuron; imidazolinones such as Imazapyr, Imazethapyr, Imazaquin, Imazamox, Imazameth, Imazamethabenz-methyl or Imazapic; dinitroanilines such as Trifluralin, Oryzalin, Pendimethalin, Ethalfluralin, Benfluralin or Prodiamine; chloroacetanilides such as Alachlor, Metolachor, Metolachor-S, Propachlor, Acetochlor, Acetochlor-S, Propisochlor or Dimethenamid; oxyacetamides such as Flufenacet; thiocarbamates such as Thiobencarb, EPTC, Triallate, Molinate, Pebulate, Cycloate, Butylate, Vemolate or Prosulfocarb; amides such as Diphenamid; semicarbazones such as Diflufenzopyr; triazolinones such as Carfentrazone, Sulfentrazone or Amicarbazone; N-phenylphthalimides such as Flumioxazin; substituted uracils such as Benzfendizone, Butafenacil, 1-Amino-3-(4-chloro-2-fluoro--

5-phenoxyphenyl)-6-trifluoromethyl)-2,4(1H,3H)-pyrimidinedione, N-[3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-p-yrimidinyl)-5-fluoro-2-methoxyphenyl]-2-naphthalenecarboxamide, [3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1 (2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-carbamic acid (3-nitrophenyl)methyl ester or 1-Amino-3-[4-chloro-2-fluoro-5-(2-nitrophenoxy)phenyl]-6-(trifluoromethyl)-2,4(1H,3H)-pyrimidinedione; isoxazolidinones such as Clomazone; quinoline carboxylic acids such as Quinclorac; isoxazoles such as Isoxaflutole or Isoxachlortole; amino acids such as Glyphosate or Glufosinate; and triazolopyridinones such as Azafenidine.

Detail Description Paragraph (16):

[0023] (2) The effective component B) is at least one compound selected from the group consisting of triazines such as Simazine, Atrazine, Cyanazine, Terbuthylazine, Atraton, Hexazinone, Metribuzin, Simetryn, Ametryn, Prometryn, Dimethametryn or Triaziflam; diphenyl ethers such as Lactofen, Acifluorfen, Acifluorfen-sodium, Oxyfluorfen, Fomesafen, Bifenox or Chlomethoxyfen; chloroacetanilides such as Alachlor, Metolachor, Metolachor-S, Propachlor, Acetochlor, Acetochlor-S, Propisochlor or Dimethenamid; triazolinones such as Carfentrazone, Sulfentrazone or Amicarbazone; N-phenylphthalimides such as Flumioxazin; substituted uracils such as Benzfendizone, Butafenacil, 1-Amino-3-(4-chloro-2-fluoro-5-phenoxyphenyl)-6-(trifluoromethyl)-2,4(1H,-

1-Amino-3-(4-chloro-2-fluoro-5-phenoxyphenyl)-6-(trifluoromethyl)-2,4(1H,-3H)-pyrimidinedione, N-[3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-(trif-luoromethyl)-1(2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-2-naphthalenecar-boxamide, [3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)--1(2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-carbamic acid (3-nitrophenyl)methyl ester or 1-Amino-3-[4-chloro-2-fluoro-5-(2-nitrophenoxy)phenyl]-6-(trifluoromethyl)-2,4(1H,3H)-pyrimidinedione; isoxazoles such as Isoxaflutole or Isoxachlortole; and triazolopyridinones such as Azafenidin.

Detail Description Paragraph (22):

[0029] B) at least one compound selected from the group consisting of triazines such as Simazine, Atrazine, Cyanazine, Terbuthylazine, Atraton, Hexazinone, Metribuzin, Simetryn, Ametryn, Prometryn, Dimethametryn or Triaziflam; diphenyl ethers such as Lactofen, Acifluorfen, Acifluorfen-sodium, Oxyfluorfen, Fomesafen, Bifenox or Chlomethoxyfen; chloroacetanilides such as Alachlor, Metolachor, Metolachor-S, Propachlor, Acetochlor, Acetochlor-S, Propisochlor or Dimethenamid; triazolinones such as Carfentrazone, Sulfentrazone or Amicarbazone; N-phenylphthalimides such as Flumioxazin; substituted uracils such as Benzfendizone, Butafenacil, 1-Amino-3-(4-chloro-2-fluoro-5-phenoxyphenyl) - -6-(trifluoromethyl)-2,4 (1H, 3H) -pyrimidinedione, N-[3-Chloro-6-(3,6-dihyd-ro-3-methyl-2,6-dioxo-4 -(trifluoromethyl)-1(2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-2-naphthalenecarboxamide, [3 -Chloro-6-(3,6-dihydro-3-methyl--2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl)-5 -fluoro-2-methoxyphenyl]-carbamic acid (3-nitrophenyl)methyl ester or 1-Amino-3-[4-chloro-2 -fluoro-5-(2-nitrophenoxy)phenyl]-6-(trifluoromethy-1) -2,4(1H,3H)-pyrimidinedione; isoxazoles such as Isoxaflutole or Isoxachlortole; and triazolopyridinones such as Azafenidin.

Detail Description Paragraph (27):

[0034] (3) The effective component B) is at least one compound selected from the group consisting of triazines such as Simazine, Atrazine, Cyanazine, Terbuthylazine, Atraton, Hexazinone, Metribuzin, Simetryn, Ametryn, Prometryn, Dimethametryn or Triaziflam; chloroacetanilides such as Alachlor, Metolachor, Metolachor-S, Propachlor, Acetochlor, Acetochlor-S, Propisochlor or Dimethenamid; substituted uracils such as Benzfendizone, Butafenacil, 1-Amino-3-(4-chloro-2-fluoro-5-phenoxyphenyl)-6-(trifluoromethyl)-2,4(1H,3H)-pyrimidinedione, N-[3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-2-naphthalenecarboxamide, [3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-carbamic acid (3-nitrophenyl)methyl ester or 1-Amino-3-[4-chloro-2-fluoro-5-(2-nitrophenoxy)phenyl]-6-(trifluoromethyl)-2,4(1H, 3H)-pyrimidinedione; and isoxazoles such as Isoxaflutole or Isoxachlortole.

```
Detail Description Paragraph (36):
[0043] (4) The effective component B) is at least one compound selected from the
group consisting of Benzfendizone, Butafenacil,
1-Amino-3-(4-chloro-2-fluoro-5-phenoxyphenyl)-6 -(trifluoromethyl)-2,4(1H-
,3H)-pyrimidinedione, N-[3-Chloro-6-(3,6-dihydro-3-methyl-2,6
-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-2-
-naphthalenecarboxamide, [3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-(tr-
ifluoromethyl)-1(2H)-pyrimidinyl)-5-fluoro-2-methoxyphenyl]-carbamic acid
(3-nitrophenyl)methyl ester and 1-Amino-3-[4-chloro-2
-fluoro-5-(2-nitrophenoxy)phenyl]-6-(trifluoromethyl)-2,4(1H,3H)-pyrimidi- nedione.
Detail Description Table CWU (3):
urea B-85; Oxasulfuron oxetan-3-yl2-[(4,6-dimethylpyrimidin-2-yl) carbamoyl
sulfamoyl]benzoate B-86; Foramsulfuron 1-(4,6-dimethoxypyrimidin-2-
-yl)-3-(2-dimethyl carbamoyl-5-formamidophenylsulfonyl)urea Imidazolinones B-87;
Imazapyr 2-(4-isopropyl-4-methyl-5-oxo-2-imid- azolin-2- yl)nicotinic acid B-88;
Imazethapyr (RS)-5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2- imidazolin-2-yl)nicotinic
acid B-89; Imazaquin (RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-
2-yl)quinoline-3-carboxylic acid B-90; Imazamox
2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2- yl)-5-methoxymethylnicotinic acid
B-91; Imazamethabenz reaction mixture of (RS)-6-(4-isopropyl-4-methyl-
5-oxo-2-imidazolin-2-yl) - -m-toluic acid and (RS) -
2-(4-isopropyl-4-methyl-5-oxo-2-imidazoli- n-2- yl)-p-toluic acid, methyl esters
B-92; Imazapic (RS)-2-(4,5-dihydro-4-isopropyl-4-methyl-5-
oxoimidazol-2-yl)-5-methylnicotinic acid Dinitroanilines B-93; Trifluralin
.varies.,.varies.,.varies.,-trifluoro-2,6-dinitro-N,N-d- ipropyl-p- toluidine B-94;
Oryzalin 3,5-dinitro-N.sup.4,N.s- up.4-dipropylsulfanilamide B-95; Pendimethalin
N-(1-ethylpropyl)-2,6-dinitrro-3,4-xylidine B-96; Ethalfiuralin
N-ethyl-.varies.,.varies.,.varies.-trifluoro-N-(2-methylallyl)-2,6-
dinitro-p-toluidine B-97; Benfluralin N-butyl-N-ethyl-.varies.,.-
varies.,.varies.-trifluoro-2,6-dinitro-p- toluidine B-98; Prodiamine
2,6-dinitro-N.sup.1,N.sup.1-dipropyl-4-trifluoromethyl-m- phenylenediamine
Chloroacetanilides B-99; Alachlor 2-chloro-2',6'-diethyl-N-methoxymethyl-
acetanilide B-100; Metolachor 2-chloro-6'-ethyl-N-(2-methoxy-1-methylethyl)-
aceto-o-toluidide B-101; Metolachor-S (S)-2-chloro-N-(2-ethyl-6-me-
thylphenyl)-N-(2- methoxy-1-methylethyl)acetamide B-102; Propachlor
2-chloro-N-isopropylacetanilide B-103; Acetochlor
2-chloro-N-ethoxymethyl-6'-ethylacet-o-toluidide B-104; Acetochlor-S B-105;
Propisochlor 2-chloro-6'-ethyl-N-isopropoxymet- hylaceto-o- toluidide B-106;
Dimethenamid 2-chloro-N-[(1-methy-2-methoxyl)ethyl]-N-(2,4-
dimethyl-3-thienyl)-acetamide Oxyacetamides B-107; Flufenacet
N-(4-fluorophenyl)-N-(1-methylethyl)-2-[[5-
(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]- acetamide Thiocarbamates B-108;
Thiobencarb S-4-chlorobenzyl diethyl(thiocarbamate) B-109; EPTC, S-ethyl
dipropylthiocarbamate B-110; Triallate S-2,3,3-trichloroallyl
di-isopropylthiocarbamate B-111; Molinate S-ethyl azepane-1-carbothioate B-112;
Pebulate S-propyl butyl(ethyl)thiocarbamate B-113; Cycloate S-ethyl
cyclohexyl(ethyl)thiocarbamate B-114; Butylate S-ethyl di-isobutylthiocarbamate
B-115; Vernolate S-propyl dipropylthiocarbamate B-116; Prosulfocarb S-benzyl
dipropylthiocarbamate Amides B-117; Diphenamid N,N-dimethyldiphenylacetamide
Semicarbazones B-118; Diflufenzopyr 2-{1-[4-(3,5-difluorophenyl)semicarbazono]-
ethyl}-nicotinic acid Triazolinones B-119; Carfentrazone-
(RS)-2-chloro-3-[2-chloro-5-(4-difluoromethyl)-4, ethyl
5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl)- 4-fluorophenyl]propionic acid,
ethyl ester B-120; Sulfentrazone N-(2,4-dichloro-5-(4-(difluoromethyl)-4,5-
dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1- yl)phenyl)methanesulfonamide B-121;
Amicarbazone 4-amino-N-(1,1-dimethylethyl)-4,5-dhihydro-3-
(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1- carboxamide N phenylphthalimides B-121;
Flumioxazin 2-(7-fluoro-3,4-dihydro-3-ox- o-4-(2-propynyl)-2H-
1,4-benzoxazin-6-yl)-4,5,6,7-tetrahydro-1H- isoindole-1,3(2H)-dione Substituted
uracils B-123; Benzfendizone methyl 2-{5-ethyl-2-[4-(1,2,3,6-tetrahydro-3-
methyl-2,6-dioxo-4-trifluoromethylpyrimidin-1- yl)phenoxymethyl]phenoxy}propionate
B-124; Butafenacil 2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-
(trifluoromethyl) -1(2H) -pyrimidinyl]benzoic acid
1,1-dimethyl-2-oxo-2-(2-propenyloxy)ethyl ester B-125;
```

```
1-Amino-3-(4-chloro-2-fluoro-5-phenoxyphenyl)-
6-(trifluoromethyl)-2,4(1H,3H)-pyrimidinedione B-126;
N-[3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-
4-(trifluoromethyl)-1(2H)-pyrimidinyl)-5-fluoro-
2-methoxyphenyl]-2-naphthalenecarboxamide B-127;
[3-Chloro-6-(3,6-dihydro-3-methyl-2,6-dioxo-4-
(trifluoromethyl) -1(2H) -pyrimidinyl) -5-fluoro-2- methoxyphenyl] -carbamic acid,
(3-nitrophenyl) - methyl ester B-128; 1-Amino-3-[4-chloro-2-fluoro-5-(2-nitro-
phenoxy)phenyl]-6-(trifluoromethyl)-2,4(1H,3H)- pyrimidinedione Isoxazolidinones
B-129; Clomazone 2-(2-chlorophenyl)methyl-4,- 4-dimethyl-3- isoxazolidinone
Quinoline carboxylic acids B-130; Quinclorac 3,7-dichloro-8-quinolinecarboxylic acid
Isoxazoles B-131; Isoxaflutole 5-cyclopropyl-4-(2-methylsulphonyl-- 4-
trifluoromethyl-benzoyl isoxazole Triazolopyridinones B-132; Azafenidin
2-(2,4-dichloro-5-prop-2-ynyloxyphenyl)-5,6,7,8-
tetrahydro-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one Amino acids B-133; Glyphosate
Phosphonomethyl-glycine B-134; Glufosinate (RS)-2-amino-4-(hydroxymethylphosphonyl)-
butanoic acid Note: When a common name has not been assigned a compound, only the
chemical name is provided
```